

PRELIMINARY AMENDMENT

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): A balanced-unbalanced multiband filter module comprising three high-frequency switches each comprising a switching element, and two balanced-unbalanced bandpass filters having different passbands,

a first high-frequency switch comprising a first port connected to an unbalanced port of said module, a second port connected to an unbalanced port of a first balanced-unbalanced bandpass filter, and a third port connected to an unbalanced port of a second balanced-unbalanced bandpass filter;

a second high-frequency switch comprising a first port connected to a first balanced port of said module, a second port connected to a first balanced port of the first balanced-unbalanced bandpass filter, and a third port connected to a first balanced port of the second balanced-unbalanced bandpass filter; and

a third high-frequency switch comprising a first port connected to a second balanced port of said module, a second port connected to a second balanced port of the first balanced-unbalanced bandpass filter, and a third port connected to a second balanced port of the second balanced-unbalanced bandpass filter;

said first to third high-frequency switches being switched depending on a passing high-frequency signal, whereby a high-frequency signal input into the unbalanced port of said module is output

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from the first and second balanced ports, or high-frequency signals input into said first and second balanced ports are output from the unbalanced port of said module.

2. (original): A balanced-unbalanced multiband filter module comprising two balanced-unbalanced bandpass filters having different passbands, and six phase shifters connected to said balanced-unbalanced bandpass filters,

a first phase shifter comprising a first port connected to an unbalanced port of said module, and a second port connected to an unbalanced port of a first balanced-unbalanced bandpass filter;

a second phase shifter comprising a first port connected to the unbalanced port of said module, and a second port connected to an unbalanced port of a second balanced-unbalanced bandpass filter;

a third phase shifter comprising a first port connected to a first balanced port of the first balanced-unbalanced bandpass filter, and a second port connected to a first balanced port of said module;

a fourth phase shifter comprising a first port connected to a second balanced port of the first balanced-unbalanced bandpass filter, and a second port connected to a second balanced port of said module;

a fifth phase shifter comprising a first port connected to a first balanced port of the second balanced-unbalanced bandpass filter, and a second port connected to the first balanced port of said module; and

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a sixth phase shifter comprising a first port connected to a second balanced port of the second balanced-unbalanced bandpass filter, and a second port connected to the second balanced port of said module;

whereby a high-frequency signal input into the unbalanced port of said module is output from said first and second balanced ports, or high-frequency signals input into said first and second balanced ports are output from the unbalanced port of said module.

3. (original): A balanced-unbalanced multiband filter module comprising a high-frequency switch comprising a switching element, two balanced-unbalanced bandpass filters having different passbands, and four phase shifters connected to said balanced-unbalanced bandpass filters,

said high-frequency switch comprising a first port connected to an unbalanced port of said module, a second port connected to an unbalanced port of a first balanced-unbalanced bandpass filter, and a third port connected to an unbalanced port of a second balanced-unbalanced bandpass filter;

a first phase shifter comprising a first port connected to a first balanced port of the first balanced-unbalanced bandpass filter, and a second port connected to a first balanced port of said module;

a second phase shifter comprising a first port connected to a second balanced port of the first balanced-unbalanced bandpass filter, and a second port connected to a second balanced port of said module;

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a third phase shifter comprising a first port connected to a first balanced port of the second balanced-unbalanced bandpass filter, and a second port connected to the first balanced port of said module; and

a fourth phase shifter comprising a first port connected to a second balanced port of the second balanced-unbalanced bandpass filter, and a second port connected to the second balanced port of said module;

said first high-frequency switch being switched depending on a passing high-frequency signal, whereby a high-frequency signal input into the unbalanced port of said module is output from the first and second balanced ports, or high-frequency signals input into said first and second balanced ports are output from the unbalanced port of said module.

4. (original): A balanced-unbalanced multiband filter module comprising two high-frequency switches each comprising a switching element, two balanced-unbalanced bandpass filters having different passbands, and two phase shifters connected to said balanced-unbalanced bandpass filters,

a first phase shifter comprising a first port connected to an unbalanced port of said module, and a second port connected to an unbalanced port of a first balanced-unbalanced bandpass filter;

a second phase shifter comprising a first port connected to the unbalanced port of said module, and a second port connected to an unbalanced port of a second balanced-unbalanced bandpass filter;

a first high-frequency switch comprising a first port connected to a first balanced port of said module, a second port connected to a first balanced port of the first balanced-unbalanced

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bandpass filter, and a third port connected to a first balanced port of the second balanced-unbalanced bandpass filter;

a second high-frequency switch comprising a first port connected to a second balanced port of said module, a second port connected to a second balanced port of the first balanced-unbalanced bandpass filter, and a third port connected to a second balanced port of the second balanced-unbalanced bandpass filter;

said first and second high-frequency switches being switched depending on a passing high-frequency signal, whereby a high-frequency signal input into the unbalanced port of said module is output from the first and second balanced ports, or high-frequency signals input into said first and second balanced ports are output from the unbalanced port of said module.

5. (currently amended): The balanced-unbalanced multiband filter module according to ~~any one of claims 1-4~~ claim 1, wherein said first and second balanced-unbalanced bandpass filters have different input impedance Z_i and output impedance Z_o , thereby exhibiting an impedance conversion function.

6. (currently amended): The balanced-unbalanced multiband filter module according to ~~any one of claims 1-5~~ claim 1, wherein said balanced-unbalanced bandpass filter is a SAW filter or an FBAR filter.

7. (currently amended): The balanced-unbalanced multiband filter module according to ~~any one of claims 1-6~~ claim 1, wherein it is constituted by a laminate of pluralities of dielectric layers having electrode patterns, transmission lines constituting said phase shifters and said high-frequency switches being formed by said electrode patterns, and switching elements constituting

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said high-frequency switches and said balanced-unbalanced bandpass filters being mounted onto said laminate.

8. (currently amended): A multiband mobile phone comprising a high-frequency circuit having the balanced-unbalanced multiband filter module recited in ~~any one of claims 1-7~~ claim 1.